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(71) Applicant *(for all designated States except US)*: **TRUSTEES OF DARTMOUTH COLLEGE** [US/US]; Technology Transfer Office, 11 Rope Ferry Road, Hanover, NH 03755-1404 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TAYLOR, Ronald, K.** [US/US]; 8 Union Street, Lebanon, NH 03766 (US). **LAPOINTE, Christian, F.** [US/US]; 24 Spring Cove Road, Nashua, NH 03062 (US).

(74) Agents: **LICATA, Jane, Massey** et al.; Law Offices of Jane Massey Licata, 66 E. Main Street, Marlton, NJ 08053 (US).

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(54) Title: COMPOUNDS AND METHODS FOR IDENTIFYING COMPOUNDS WHICH INHIBIT A NEW CLASS OF ASPARTYL PROTEASES

(57) Abstract: Compounds and methods for designing and identifying compounds which inhibit TFPP-like aspartyl protease enzymes by targeting the aspartic acid residues of the active site or mimicking peptides corresponding to the region surrounding the substrate's cleavage site are provided. Agents identified as inhibitors of TFPP-like aspartyl proteases such as type 4 prepilin peptidases are expected to be useful as anti-bacterial agents and in inhibiting development of drug resistant strains of bacteria.